

AMENDMENTS TO THE SPECIFICATION

Please replace the sentences of the indicate paragraphs with the corrected versions shown below:

1. Paragraph [0010], last sentence:

The pH of the bulk solution is at least respectively 0.5, 0.3, or 0.2 [[f]] of a pH unit lower than [[th]] the pH of the buffer of the buffer is basic and [[th]] the chemical species has respectively one, two or three or more acid responsive groups.

2. Paragraph [0018], sentence beginning on line 19:

Drugs that have deleterious deleterious general effects such as chemotherapeutic or immuno-suppressant drugs may be encapsulated in this manner and used to treat specific tissues or cells cells.

3. Paragraph [0018], sentence beginning at line 22:

Because of the high rate of encapsulation and the efficiency of encapsulation, concern over the expense and scarcity of the chemotherapeutic drugs no longer need be as great since only insignificant quantities of the drug will rein remain in the loading solution following vesicle preparation.

4. Paragraph [0026], first sentence:

The chemicals or drugs that say may be incorporated using the present method of encapsulation include those species that have acid or basic pH responsive groups, hydrophobic delocalized charged ions or that Ray may be provided with such.

4. Paragraph [0029], second sentence:

Appropriate alkaline ~~butter~~ buffers include besides carbonate lysine/carbonate, lysine/phosphate and TAPS (obtainable from SIGMA).

5. Paragraph [0030], first sentence:

After the vesicle has been prepared, the pH of the solution containing the vesicle is usually adjusted by the addition of an acid or base to a pH of, ~~respectively~~, at least about 0.5, 0.3 or 0.2 pH units higher than the pH of the buffer if the buffer is acidic and the chemical species has ~~respectively~~ one, two or three ~~remove~~ basic pH responsive groups and at least about 0.5, 0.3 or 0.2 pH units lower than the pH of the buffer if the buffer is basic and the chemical species has ~~respectively~~ one, two or three or more acid pH responsive groups.

6. Paragraph [0030], second to last sentence:

For simple & ~~mine~~ chemicals amines having a pKa greater than 11, equilibration will be slower than one minute.

7. Paragraph [0031], first sentence:

The membrane of the vesicle is impermeable to the passage of the buffer molecules throughout a [[ps]] pH range of 3-11.

8. Paragraph [0033], third sentence:

This decay [[F]] will generally occur such much more slowly than the initial loading process because of favorable effects of the pH gradient on the vectorial movement of the drug across the vesicle membrane.

9. Paragraph [0034], fourth sentence:

For some drugs like aspirin where elimination from the body does not involve significant liver metabolism, liposome injection would nevertheless provide a means of diminishing the toxic effect of the drug by reducing high blood concentrations during the initial phase of intoxication.

10. Paragraph [0034], last sentence:

The liposomes containing the toxin say may also be removed by means of dialysis.

11. Paragraph [0035], third sentence:

The first compartment (12) is separate separated from the second compartment (14) by an impermeable barrier (16) made of rubber, plastic or the like.

12. Paragraph [0036], 5th sentence:

The second solution (15) has a pH such that a mixture of said first and second solutions (13, 15) will have a pH, respectively, of at least about 0.5, 0.3 or 0.2 pH units higher than the buffer (24) if the buffer (24) is acidic and the chemical (11) has respectively one, two, [[or]] three or more basic pH responsive groups and at least about 0.5, 0.3, or 0.2 units lower than the pH of the buffer (24) if the buffer (24) is basic and the chemical (11) has respectively, on one, two, [[or]] three or more acid pH responsive groups.

13. Paragraph [0037], 4th sentence:

To encapsulate the chemical (11) which Lay may or may not be included with the kit but which for purposes for the purpose of this illustration is included in the first solution (13), the contents of the syringe (10) are emptied into a first vial (30).

14. Example 1, last two sentence:

The rate of uptake of the ~~amine~~ amine depends on the pKa of the ~~amine~~ amine. As determined by ESR spectroscopy the resulting pH gradient was stable for several hours.

15. Example 6, last sentence:

Since the vesicles are prepared with [[a]] an internal volume of ~~beut~~ about 10%, the final cyanine concentration inside the vesicles is about 100 μM , with the external cyanine concentration is ~~beut~~ about 100 nM.